

Fig. 1

Shown for channel  $q$

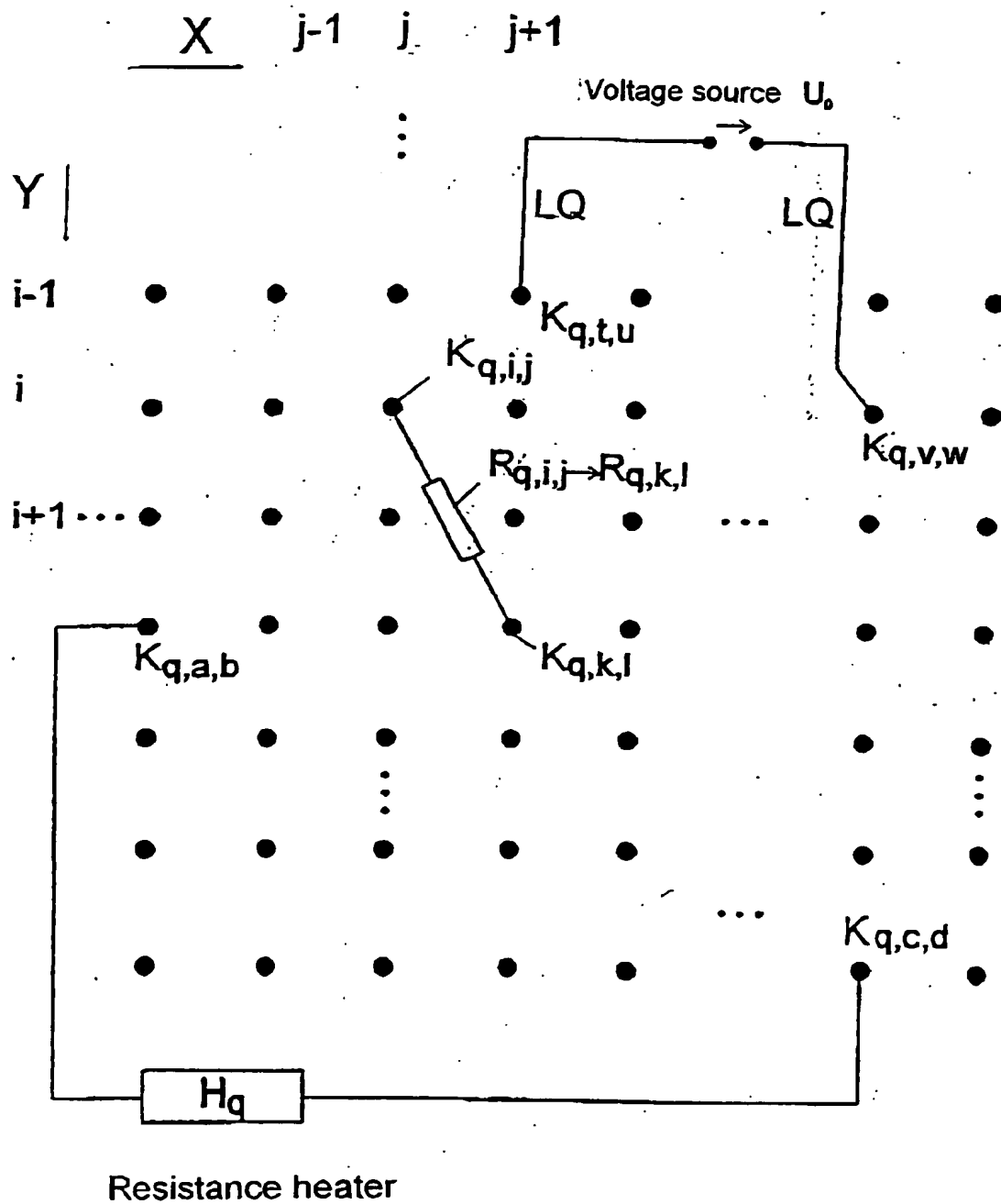


Fig. 2a

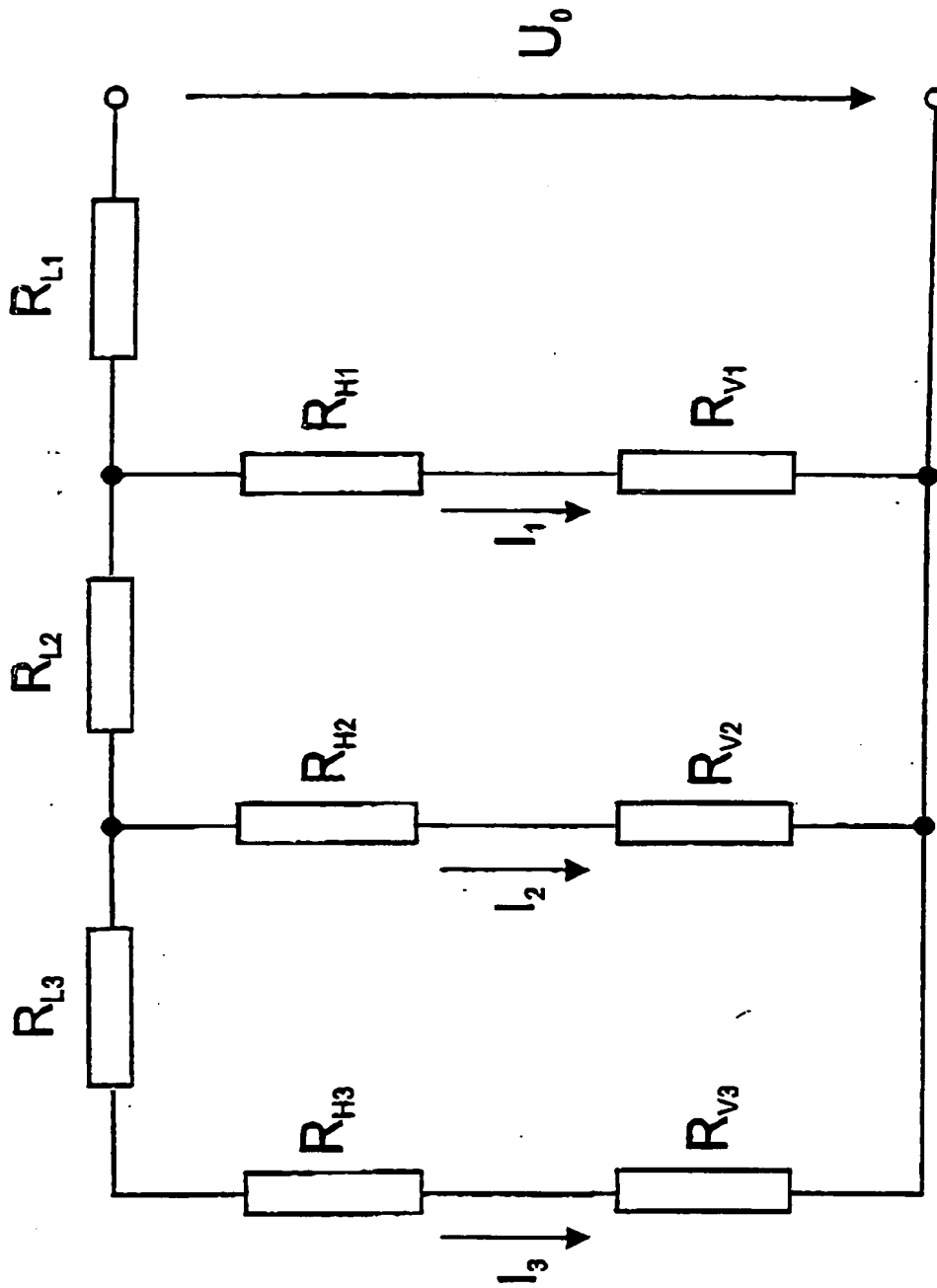
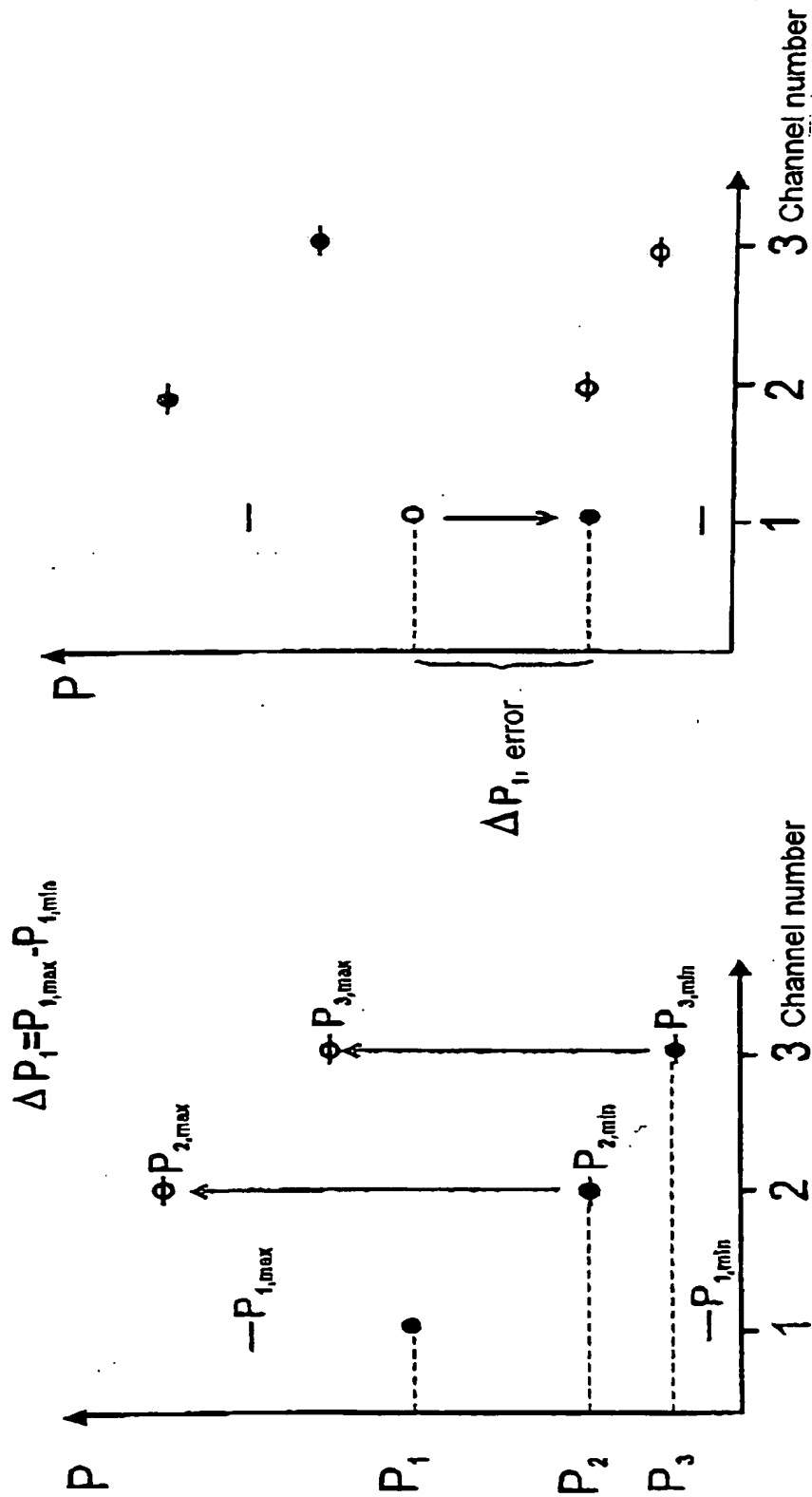


Fig. 2b



**Fig. 2c**

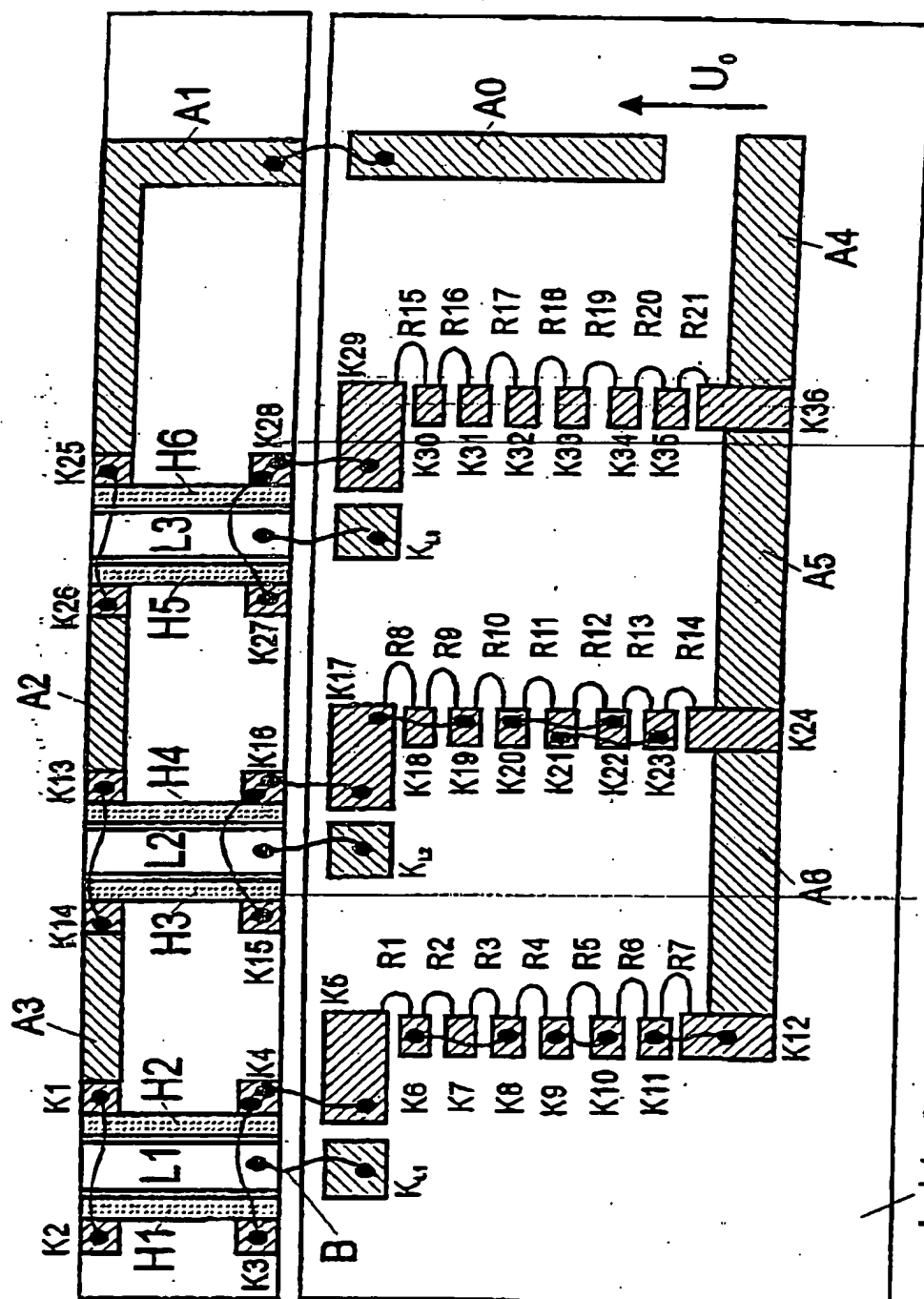


Fig. 3

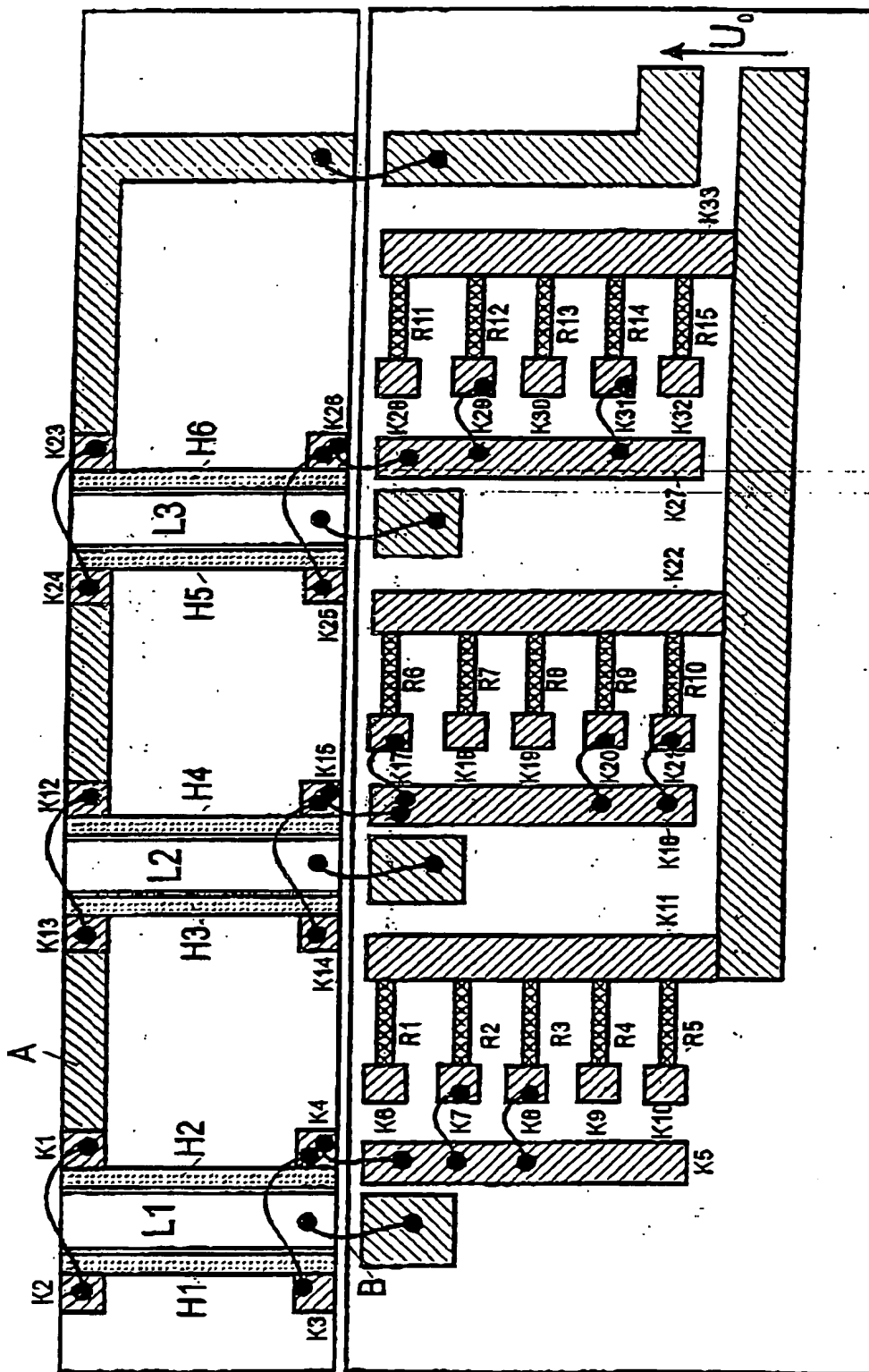


Fig. 4a

Bond Connection B

Relationship between adjusted binary value (index) and heat output

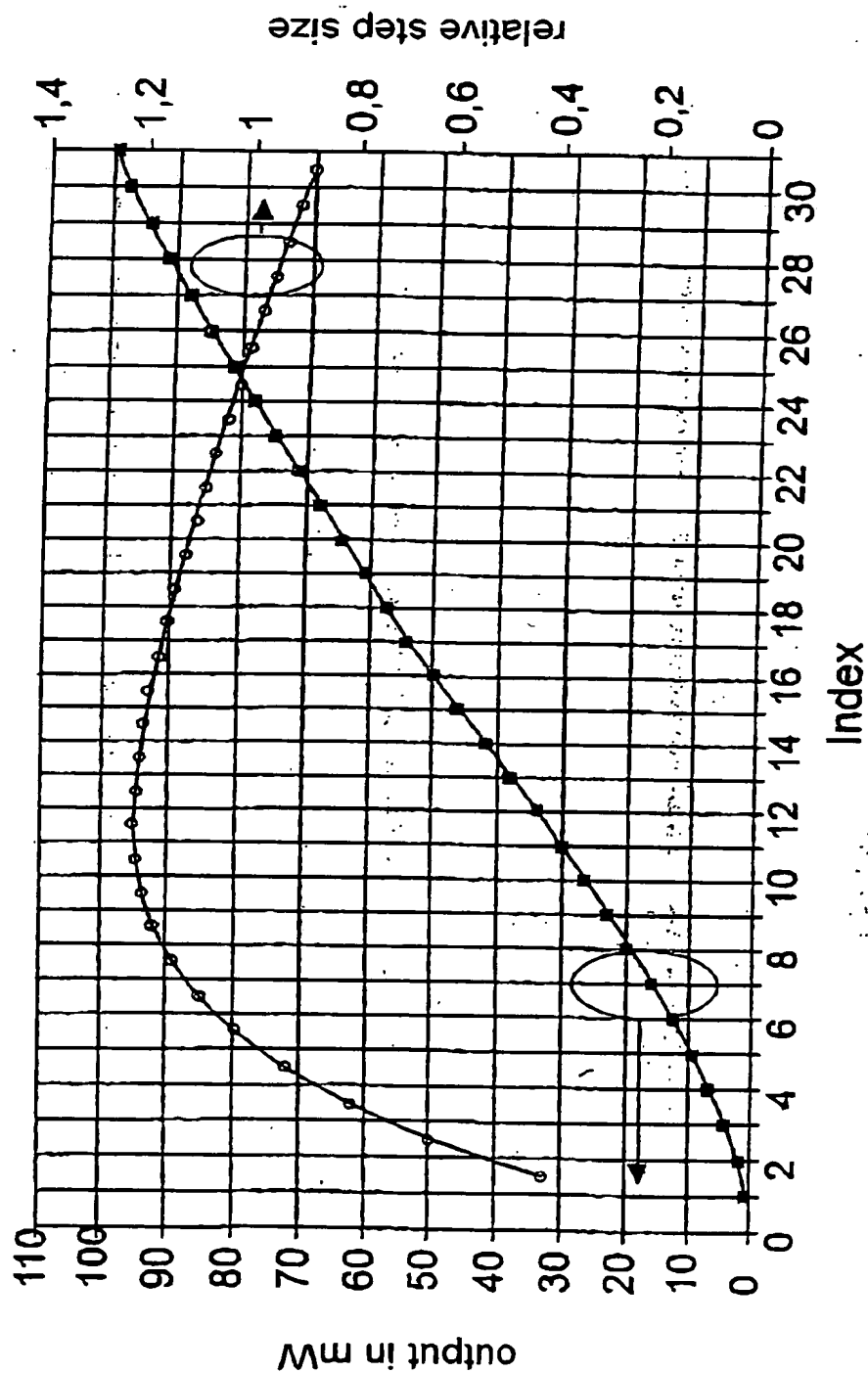


Fig. 4b

Relationship between adjusted binary value (index) and heat output

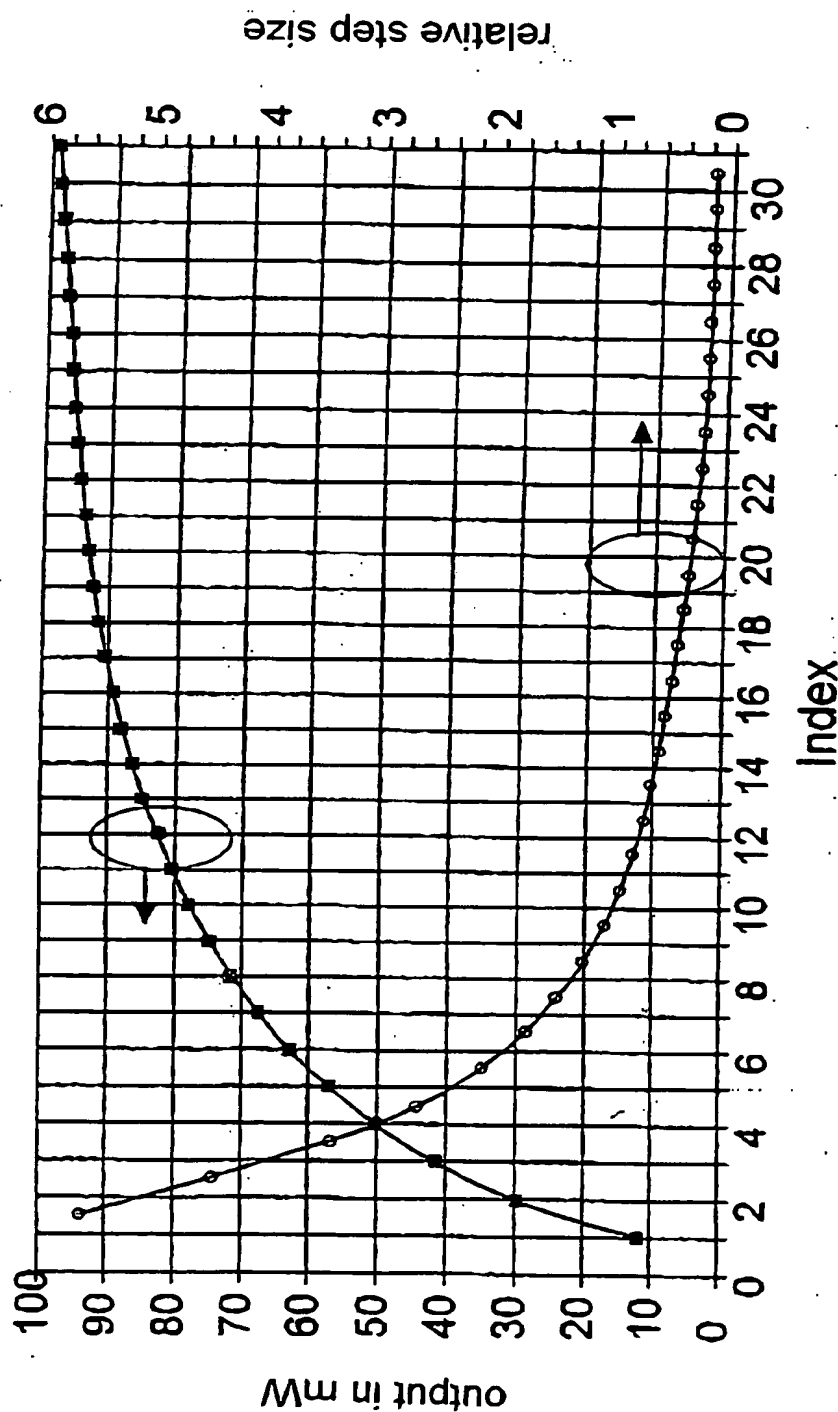


Fig. 4c



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Relationship between adjusted binary value (index) and heat  
output

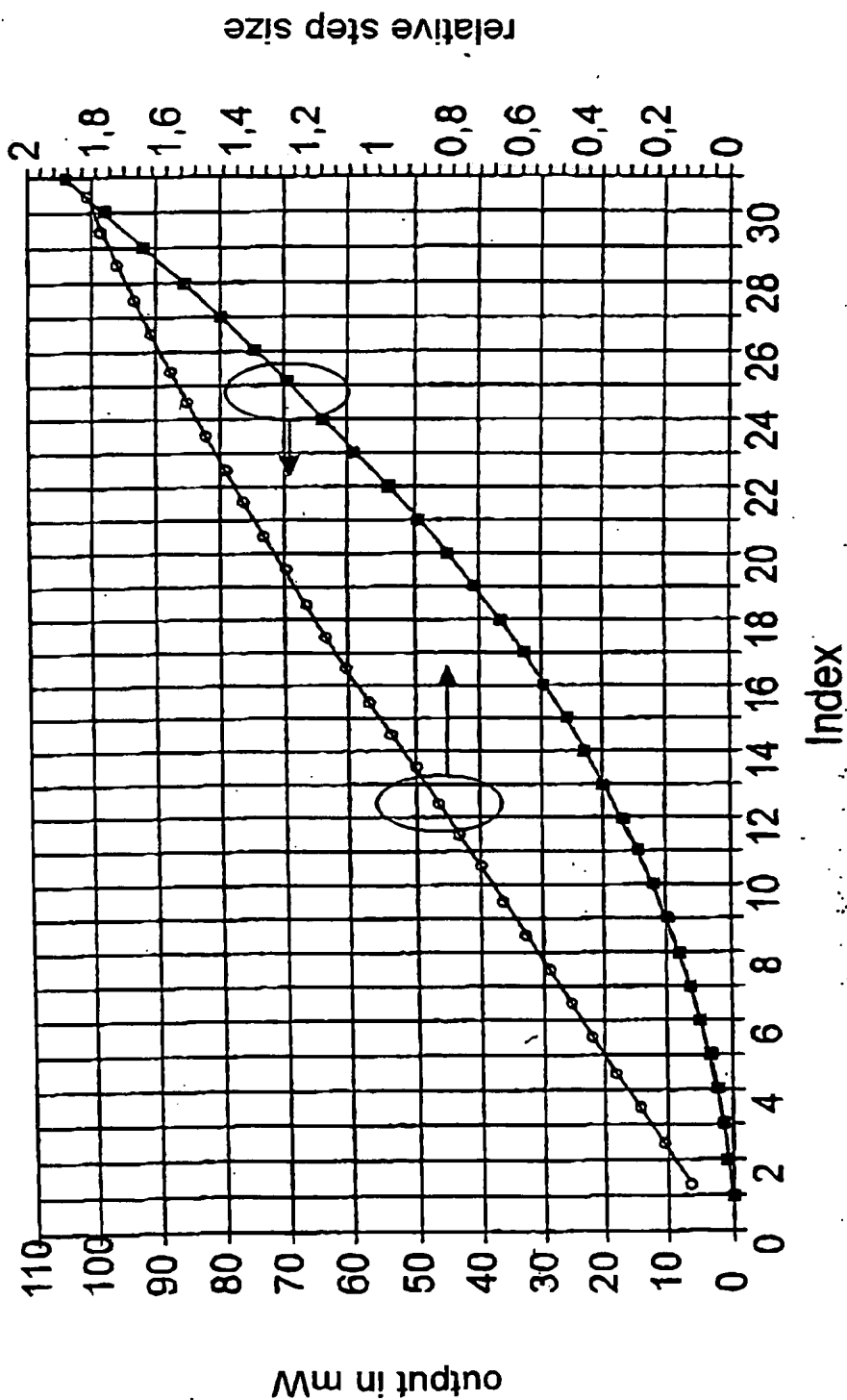


Fig. 4d

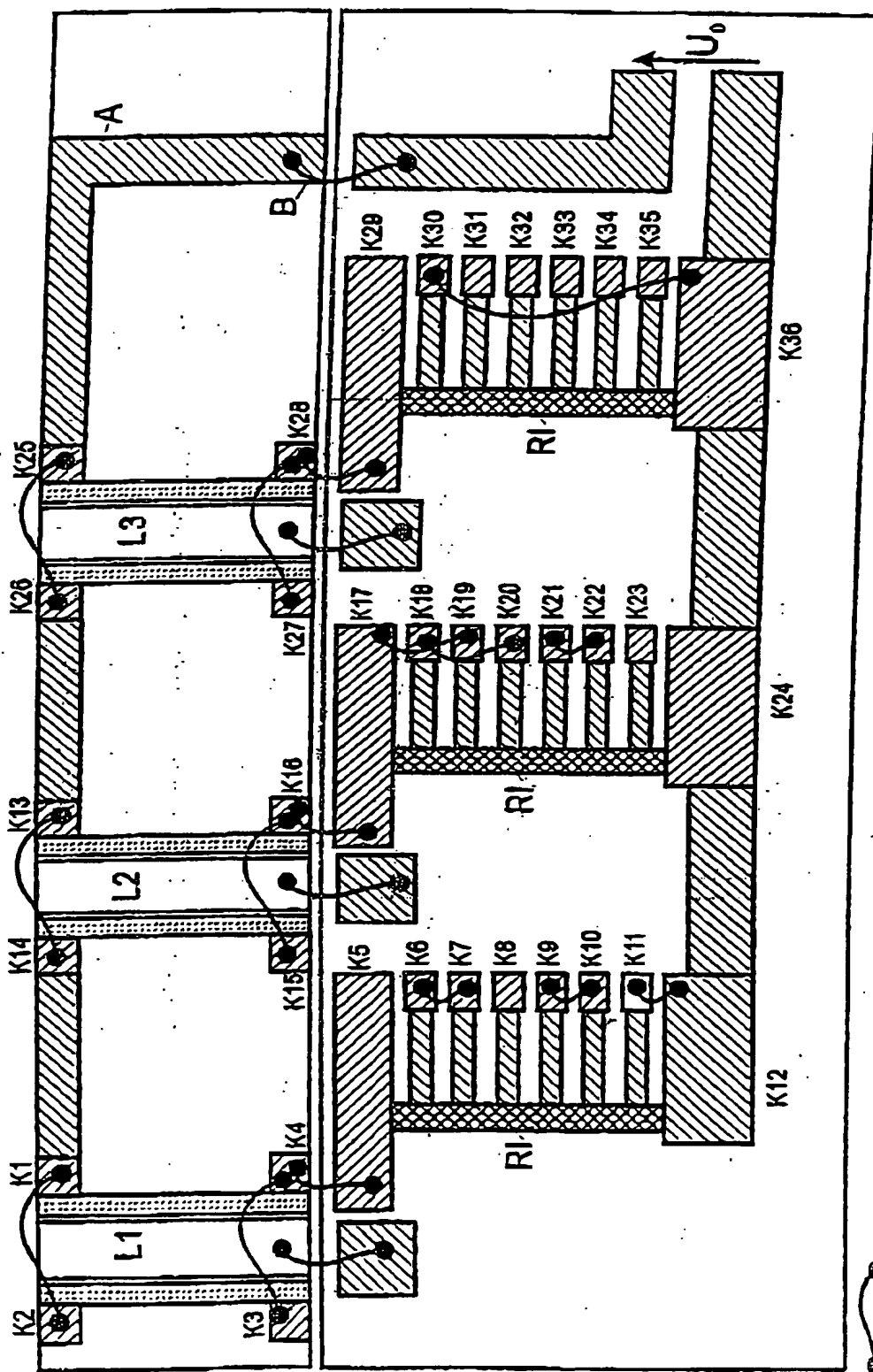
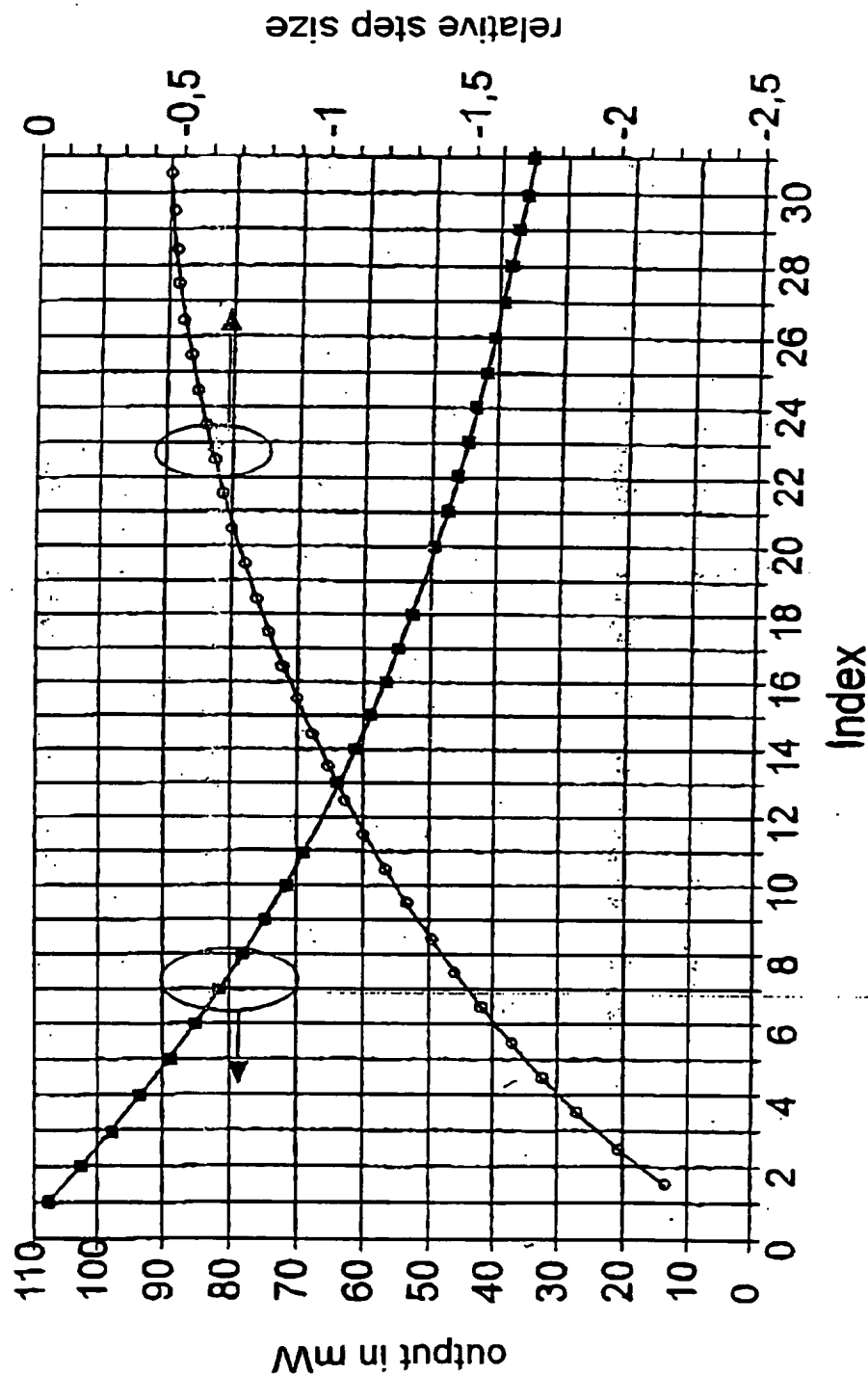


Fig. 5a

Bond Connection B

Relationship between adjusted binary value (index) and heat output for exemplary embodiment 5a



**Fig. 5b**

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09/555662

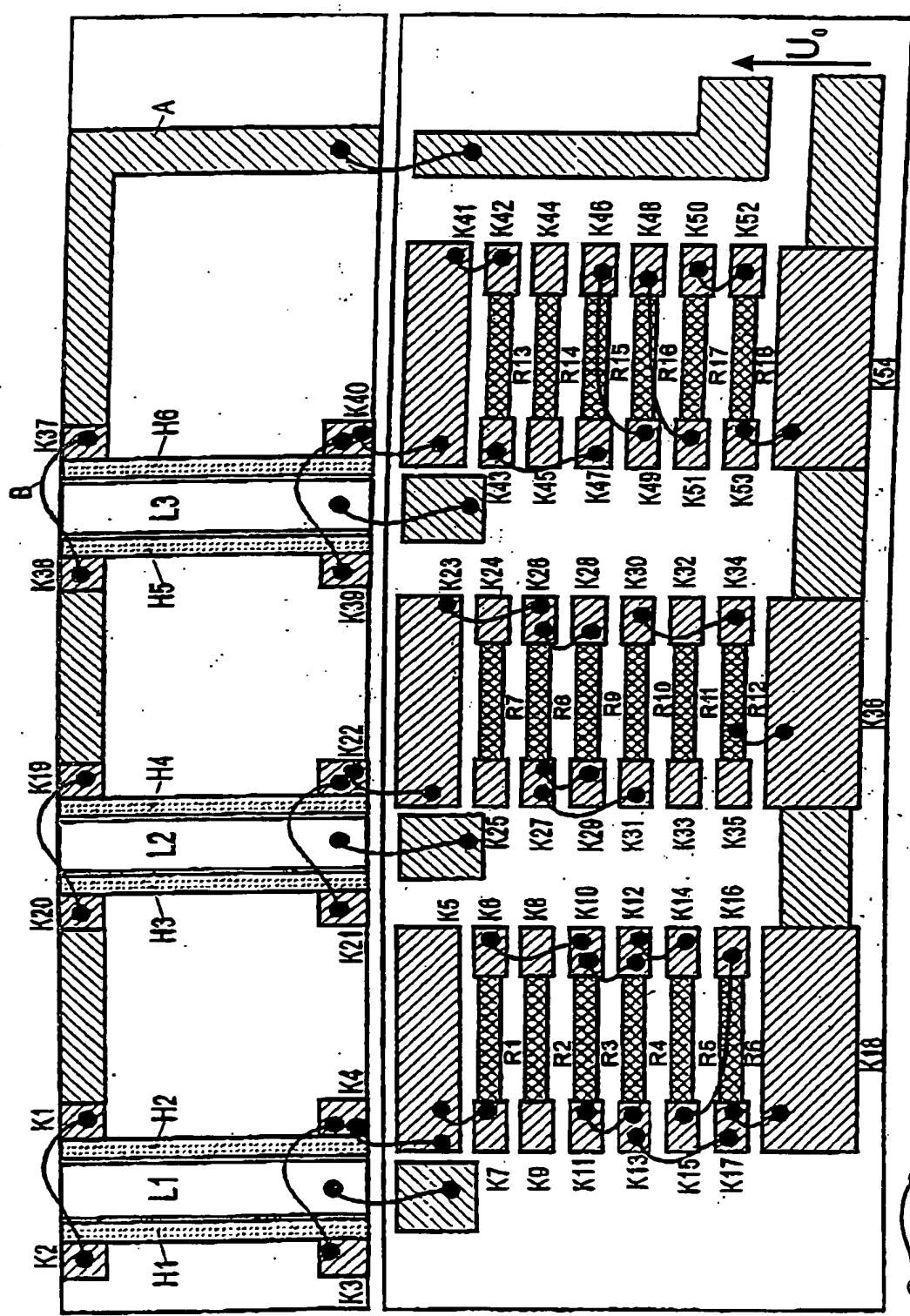


Fig. 6

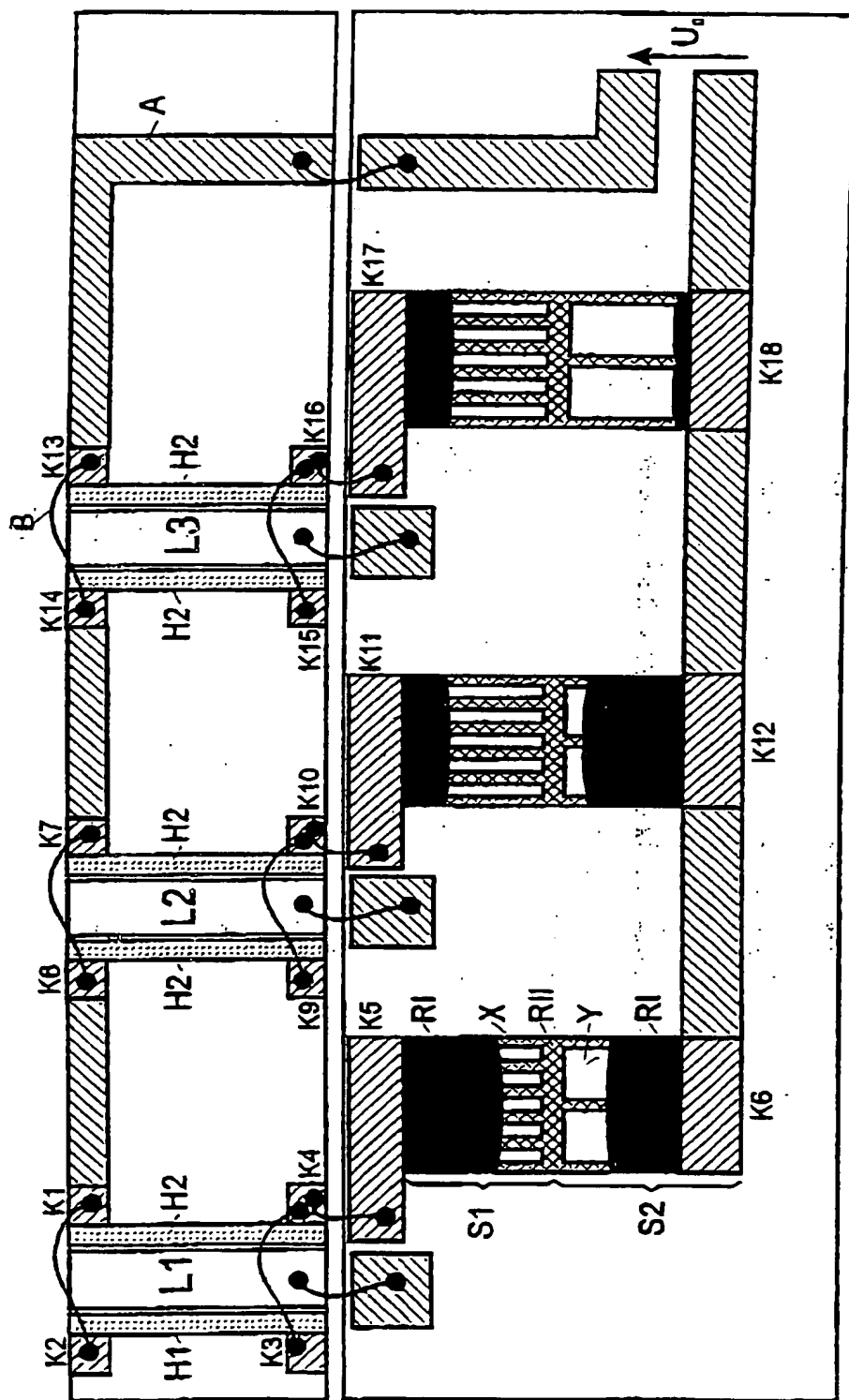


Fig. 7

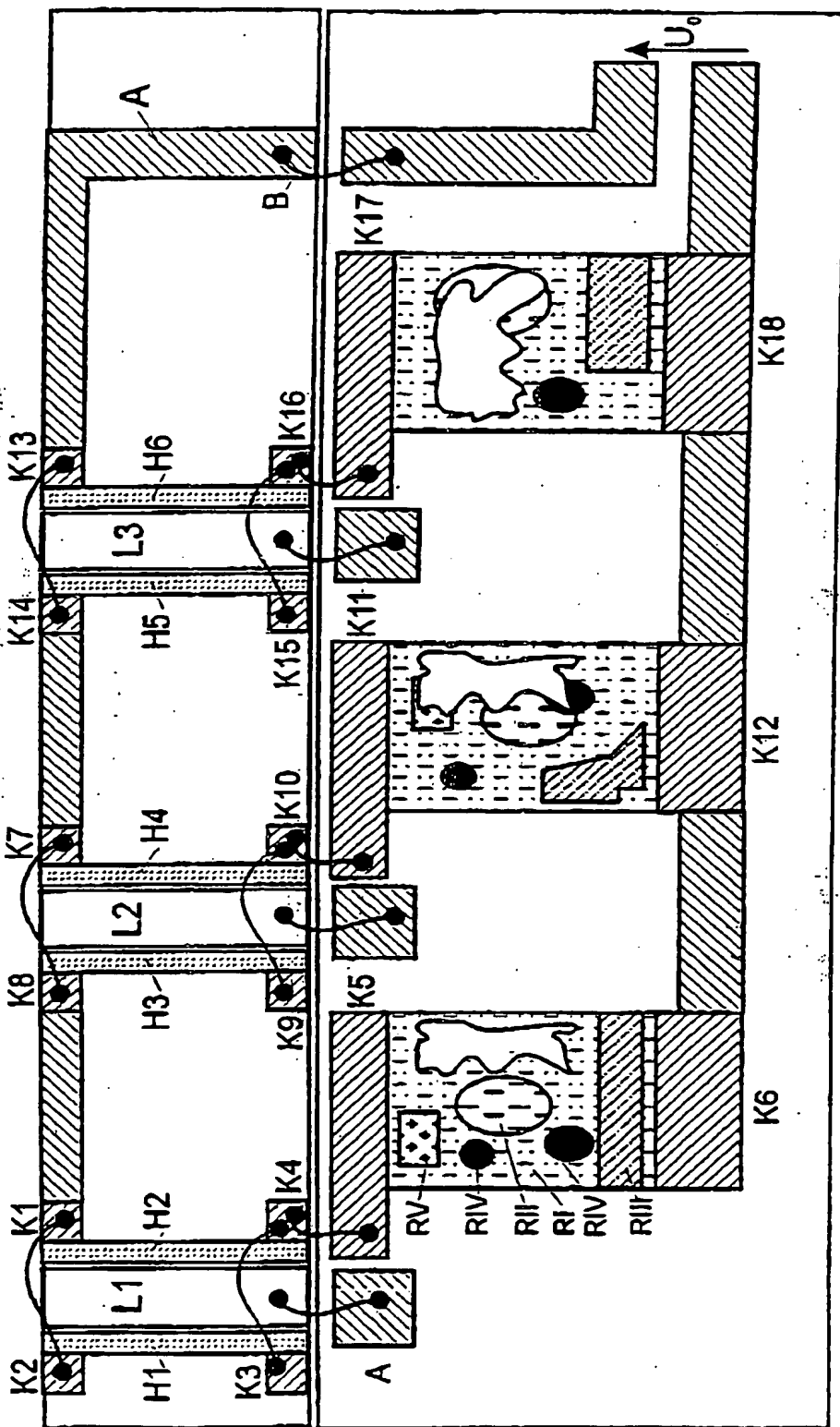


Fig. 8

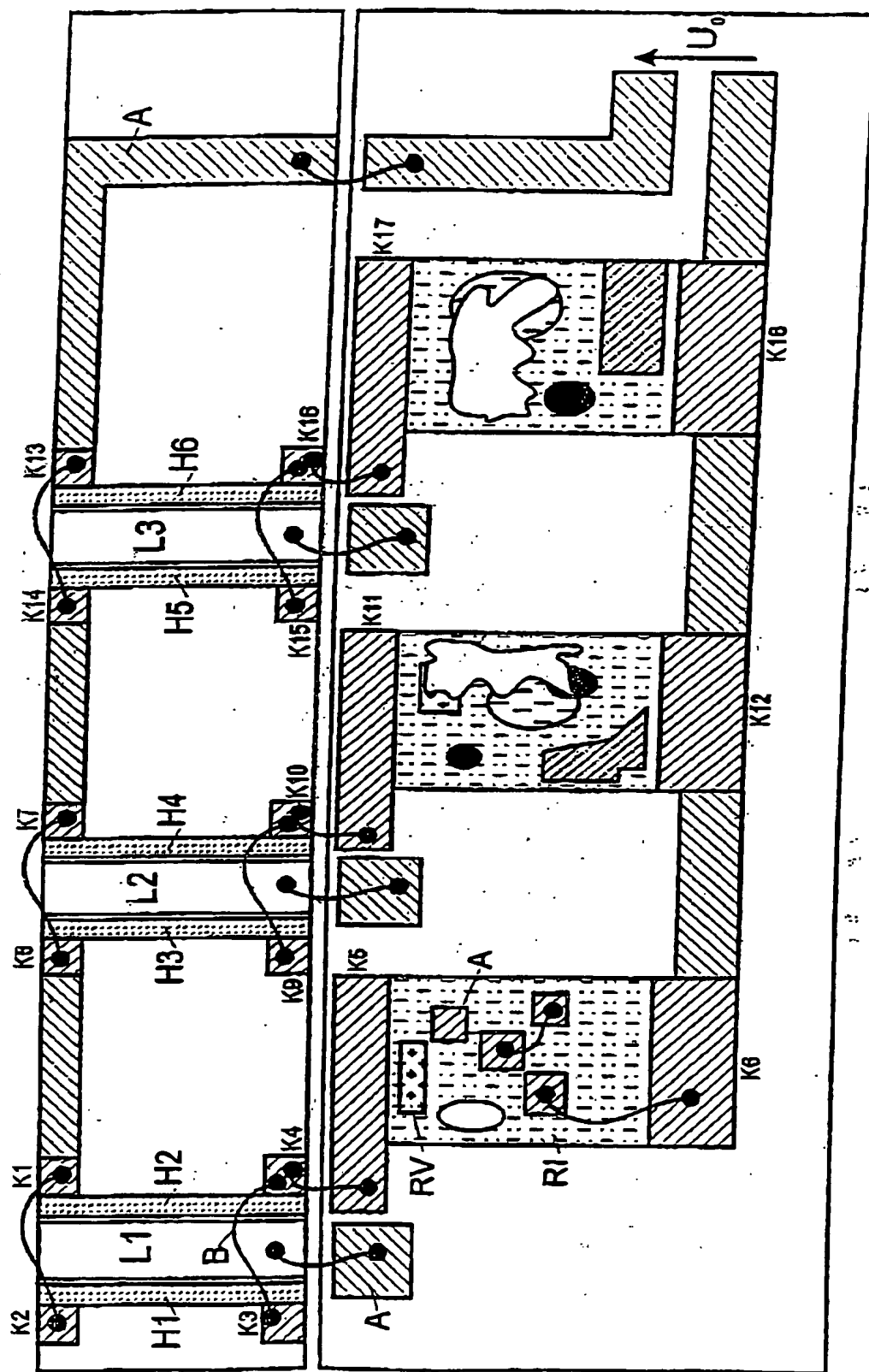


Fig. 9

Bond Connection B



Fig. 10



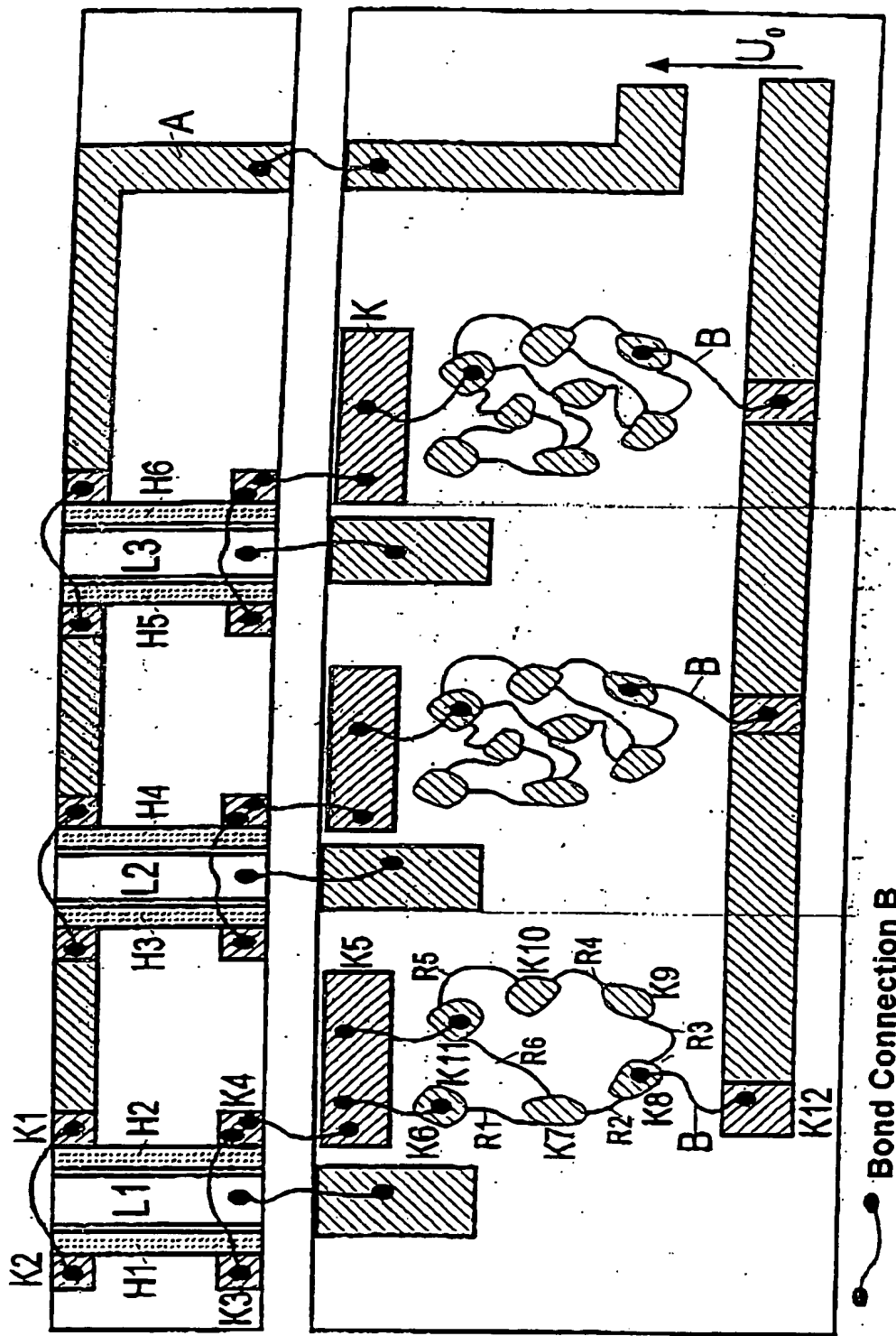


Fig. 11

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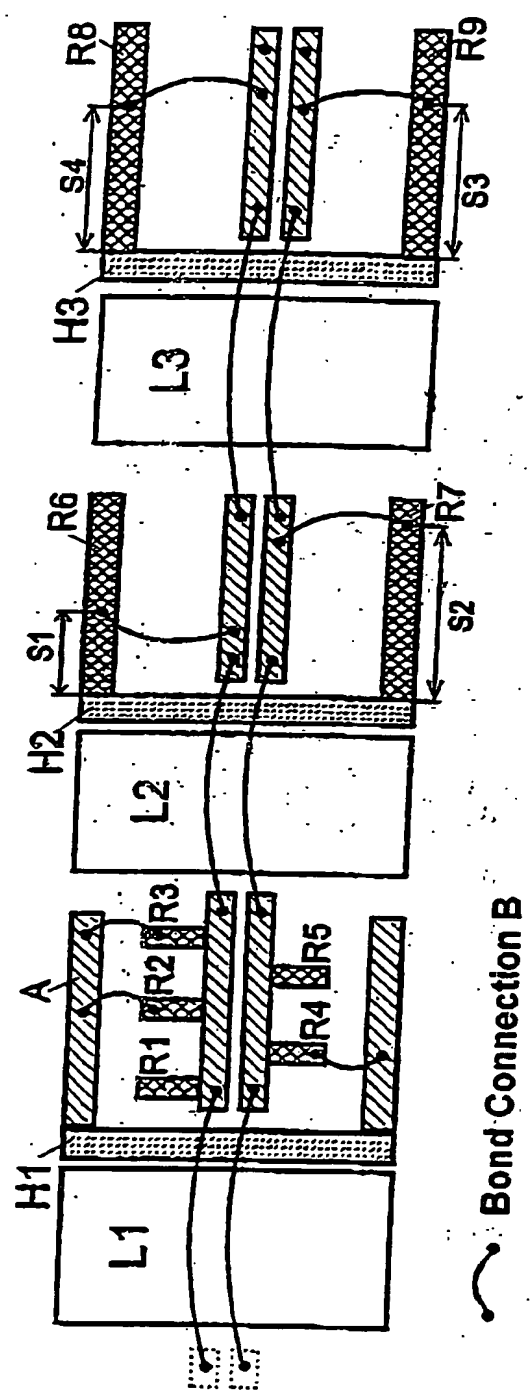
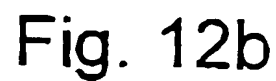
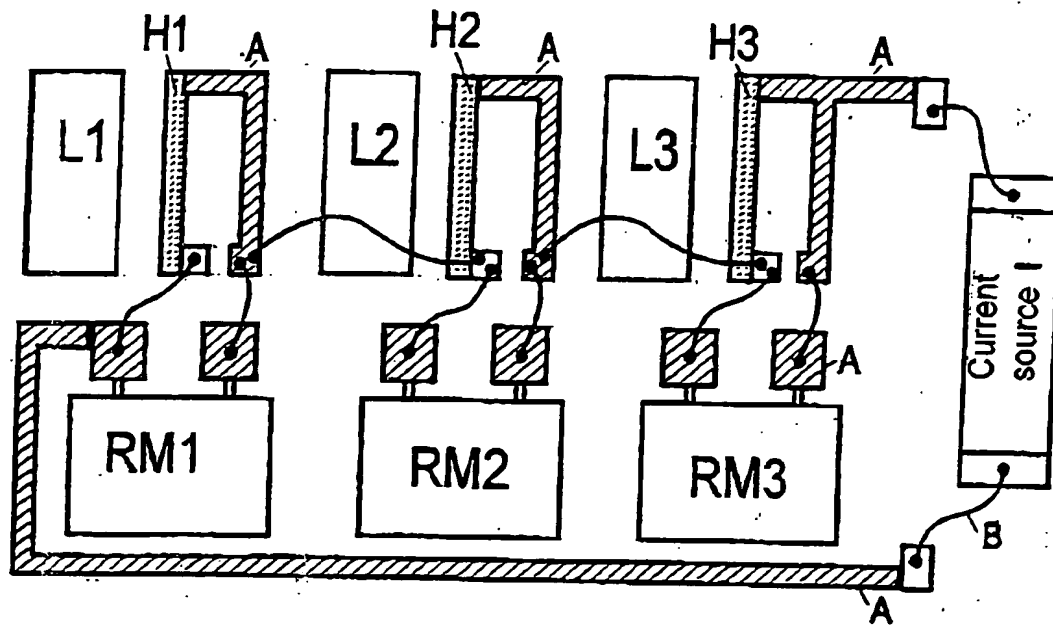


Fig. 12a



Exemplary embodiment including current source



electrical circuit for exemplary embodiment

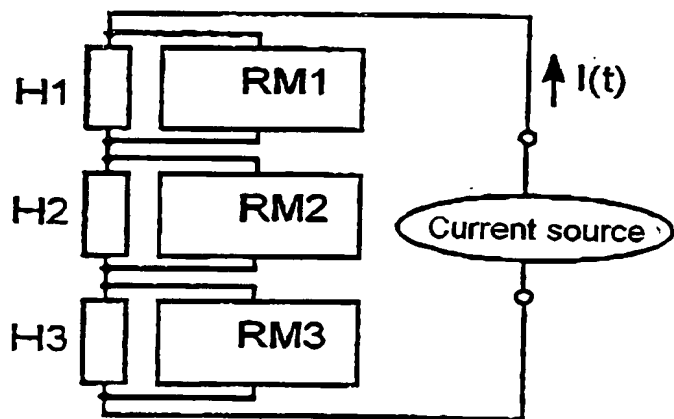


Fig.13